4.11   Portable Sediment Tank

Definition

A sediment tank is a compartmental tank container through which sediment-laden water is pumped to trap and retain the sediment.

Purpose

A sediment tanks is used to trap and retain sediment prior to pumping the water to drainageways, adjoining properties, and rights-of-way below the sediment tank site.

Conditions Where Practice Applies

A sediment tank is to be used on sites where excavations are deep and space is limited, such as urban construction, where direct discharge or sediment-laden water to stream sand storm drainage systems is to be avoided.

Design Criteria

Location

The sediment tank shall be located for ease of clean out and disposal of the trapped sediment and to minimize the interference with construction activities and pedestrian traffic.

Tank Size

The following formula should be used in determining the storage volume of the sediment tank:

$$\text{Pump Discharge (GPM)} \times 16 = \text{Cubic Foot Storage}$$

A variety of manufactured sediment tanks is available. Various designs can be used if the storage volume is adequate and approval is obtained from the local approving agency.

Internal Sediment Traps

The following manufactured sediment trap for stormwater inlets has been approved as a BMP for construction activity and is particularly suited for urban and paved environments where conventional inlet protection practices may be ineffective.

The manufacturer's product and specifications are provided as an example of this type of device and are not intended to exclude equivalent or similar products. Use of

alternative products or devices requires the prior approval of the local controlling jurisdictions.

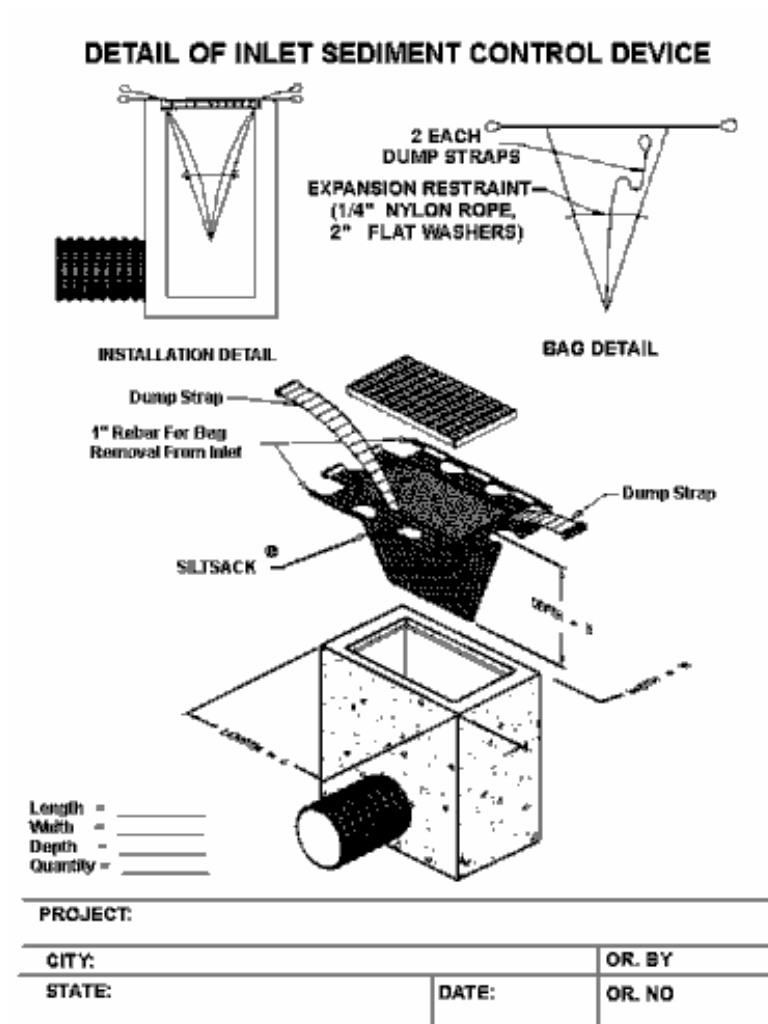## DETAIL OF INLET SEDIMENT CONTROL DEVICE

Figure 4.11.1 "Silksack" manufactured by ACF Environmental, 1901-A Willis Road, Richmond, VA 23237 Phone 800/644-9223